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PTO/SB/08a (08-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Complete If Known

10/735,918

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Number

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

Filing Date December 15, 2003

First Named Inventor William B. Vail, III

Art Unit 3672

Examiner Name Unknown 7500

Attorney Docket Number WEAT/0528.P1

			U.S. PATENT	DOCUMENTS	-
Examiner tnittets	Cite No.	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
71		US-6,857,487	02-22-2005	Galloway	"
//		US- 6,857,486	02-22-2005	Chitwood, et al.	
		US- 6,854,533	02-15-2005	Galloway	
1		US- 6,848,517	02-01-2005	Wardley	
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Examiner	Cite	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶
71		EP 0479583	04-08-1992	Gonalez, et al.	<u>-</u>	
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7		GB 2347445	09-06-2000	Metcalfe, et al.		
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		WO 99/04135	01-28-1999	Collins		
		WO 97/05360	02-13-1997	Collins		
77		WO 03/074836	09-12-2003	Philip		
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Examiner Signature	Frace	5	Date Considered	9/29/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Dray line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the armount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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n Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number, Complete If Known 10/735,918 Application Number INFORMATION DISCLOSURE Filing Date December 15, 2003 STATEMENT BY APPLICANT First Named Inventor William B. Vail, III Art Unit 3672 (Use as many sheets as necessary) Examiner Name Unknown Sheet Attorney Docket Number WEAT/0528.P1

			U.S. PATENT	DOCUMENTS	
Examiner Initials	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
77		US-6,237,684	05-29-2001	Bouligny, Jr., et al.	i igures repeai.
11	1	US- 6,217,258	04-17-2001	Yamamoto, et al.	
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		US- 5,878,815	03-09-1999	Collins	·
1		US- 5,348,095	09-20-1994	Worrall, et al.	
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Evaminar	Cite	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
	No.1	Country Code ⁸ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶
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Examiner Signature	Frac /80	Date Considered	9/29/05

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Substitute for form 1449A/PTO	Application Number	10/735,918
	Filing Date	December 15, 2003
INFORMATION DISCLOSURE	First Named Inventor	William Banning Vail, III
STATEMENT BY APPLICANT	Group Art Unit	3672
	Examiner Name	Unknown TSay
(Use as many sheets as decessary)	Attorney Docket Number	WEAT/0528.P1
JAN 2 1 ZZZS	Customer No.	36735
Sheet 1 of 12	Submission Date	

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Examiner Cit	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
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7 /	A2	US-2,228,503	01-14-1941	Boyd, et al.	
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	A13	US-3,117,636	01-24-1964	Wilcox, et al.	
7	A14	US-3,124,023	3-10-1964	Marquis, et al.	
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Examiner	Examiner Cite Initials No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰
Initials		Number-Kind Code ^{2 (d known)}	MM-DD-YYYY			
7/	B1	CA 2 335 192	11-30-2001	Kozak		
	B2	DE 3 523 221	02-01-1987	Svetozar		
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7	B4	EP 0 474 481	03-11-1992	Moody		
11	B5	EP 0 087 373	08-31-1983	Plaquin		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 12

Application Number	10/735,918	1
Filing Date	December 15, 2003	
First Named Inventor	William Banning Vail, III	
Group Art Unit	3672	
Examiner Name	Unknown (80)	
Attorney Docket Number	WEAT/0528.P1	
Customer No.	36735	
Submission Date		

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Examiner Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
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1	A19	US-3,552,507	01-05-1971	Brown	
11,	A20	US-3,552,848	01-05-1971	Van Wagner	
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1	A35	US-4,127,927	12-05-1978	Hauk, et al.	
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т⁰
Initials	No.1	Number-Kind Code ² (I known)	MM-DD-YYYY			
71	B6	EP 0 162 000	11-21-1985	Hamilton		
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	B9	EP 0 426 123	05-08-1991	Reis, et al.		
77	B10	EP 0 525 247	02-03-1993	Willis		

29 **Date Considered** Examiner

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Sheet	3	of	12	Submission Date	
				Customer No.	36735
	(Use as many sheets as ne	ecessary)		Attorney Docket Number	WEAT/0528.P1
	##			Examiner Name	Unknown Se
STA	TEMENT BY AF	PLIC	CANT	Group Art Unit	3672
INFO	RMATION DIS	CLOS	SURE	First Named Inventor	William Banning Vail, III
				Filing Date	December 15, 2003
Substitute	e for form 1449A/PTO			Application Number	10/735,918

	Cite	T Beaumont Number	T	DOCUMENTS	Dance Columns Lines Witness
Examiner Initials*	No.1	Document Number Number-Kind Code ^{2 (I known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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7	A38	US-4,241,878	12-30-1980	Underwood	
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1	A40	US-4,280,380	07-28-1981	Eshghy	
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Examine	er	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T¢
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		B11	EP 0 589 823	03-03-1994	Busink, et al.		
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		nok Rodi	ration Act of 1895	U.S. Pate	ent and Trademark Office: U.S. DEPARTMENT OF COMMERCI
Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	CLOS	SURE	First Named Inventor	William Banning Vail, III
STAT	TEMENT BY AP	PLIC	CANT	Group Art Unit	3672
				Examiner Name	Waknewn S
	(Use as many sheets as ne	cessary)	Attorney Docket Number	WEAT/0528.P1
				Customer No.	36735
Shoot	4	Of	12	Submission Date	

Examiner Initiale*	Cite No.	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
	110.	Number-Kind Code ^{2 (Il known)}	MM-DD-YYYY	Applicant of Cited Document	Figures Appear
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7	A56	US-4,649,777	03-17-1987	Buck	
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	A61	US-4,709,599	12-01-1987	Buck	
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	A71	US-4,791,997	12-20-1988	Krasnov	
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁵		
Initials*	No.'	Number-Kind Code ^{2 (f known)}	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear			
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Examiner Fix Date Considered 9/29/8)

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PTO/SB/030 (03-03)

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Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	CLOS	SURE	First Named Inventor	William Banning Vail, III
STAT	TEMENT BY AP	PLIC	CANT	Group Art Unit	3672
				Examiner Name	Unknown /Say
	(Use as many sheets as ne	cessary		Attorney Docket Number	WEAT/0528.P1
•				Customer No.	36735
Sheet	5	of	12	Submission Date	

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials	No.1	Number-Kind Code ^{2 (if known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
-11	A73	US-4,800,968	01-31-1989	Shaw, et al.	
//	A74	US-4,806,928	02-21-1989	Veneruso	
7	A75	US-4,813,493	03-21-1989	Shaw, et al.	
	A76	US-4,836,064	06-06-1989	Slator	
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T°		
Initials*	No.¹	Number-Kind Code ^{2 (I trown)}	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	·		
	B21	GB 2 294 715	08-05-1996	Tibbitts				
7	B22	GB 2 349 401	11-01-2000	Roberts, et al.				
	B23	GB 2 352 747	07-02-2001	Davis, et al.				
	B24	GB 2 357 530	06-27-2001	Schulze-Beckinghausen				
1	B25	GB 2 372 765	09-04-2002	Head				

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PTO/SB/08a (03-03)

Approved for use through 07/31/2008, OMB 0851-0331 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

motion unless it displays a walld OMB control number. 10/735,918 Application Number Substitute for form 1449A/PTO December 15, 2003 Filing Date INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT Group Art Unit 3672 **Examiner Name** Unknown (Use as many sheets as necessary) WEAT/0528.P1 Attorney Docket Number Customer No. 36735

Submission Date

	U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant		
		Number-Kind Code ^{2 (if known)}	MM-DD-YYYY	Applicant of Cited Document	Figures Appear		
7/	A91	US-5,271,468	12-21-1993	Streich, et al.			
77	A92	US-5,305,839	04-26-1994	Kalsi, et al.			
:	A93	US-5,332,043	07-26-1994	Ferguson			
/	A94	US-5,351,767	10-04-1994	Stogner, et al.			
	A95	US-5,388,651	02-14-1995	Велу			
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	A97	US-5,433,279	07-18-1995	Tassari, et al.			
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	A100	US-5,503,234	04-02-1996	Clanton			
	A111	US-5,540,279	07-30-1996	Branch, et al.	and the second s		
	A112	US-5,542,472	08-06-1996	Pringle, et al.			
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	A114	US-5,553,672	09-10-1996	Smith, Jr., et al.			
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	A116	US-5,645,131	07-08-1997	Trevisani			
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Examine	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁰	
Initials*	No.¹	Number-Kind Code ^{2 (if known)}	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear		
	B26	GB 709 365	05-19-1954	Standard Oil Development			
	B27	GB 716 761	10-13-1954	Standard Oil Development			
	B28	GB 881 358	11-01-1961	Kammerer, et al.			
7	B29	GB 2 350 137	11-22-2000	Baugh, et al.			
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Examiner Frank Some Date Considered 9/29/05

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PTC/SB/08a (03-03)

Approved for uso through 07/31/2008, OMB 0851-031

Approved to use usuagn or arrades, one destruction of COMMERCE on colorate of Information unless it displays a wild OMB control symber. Under the Panerwork Reduction Act of 1995, on 10/735,918 **Application Number** Substitute for form 1449A/PTO Filing Date December 15, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT 3672 Group Art Unit Unknown **Examiner Name** (Use as many sheets as necessary) WEAT/0528.P1 **Attorney Docket Number** 36735 Customer No. of 7 12 Sheet **Submission Date**

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initiale	No.1	Number-Kind Code ^{2 (If known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
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7	A120	US-5,813,456	09-29-1998	Milner, et al.		
	A121	US-5,836,395	11-17-1998	Budde		
T	A122	US-5,839,515	11-24-1998	Yuan, et al.		
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	A124	US-5,907,664	05-25-1999	Wang, et al.		
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or		T⁰
Initials*	No.'	Number-Kind Code ^{2 (I known)}	MM-DD-YYYY	Applicant of Cited Document		
	831	WO 00/39429	07-06-2000	Pietras		
	B32	WO 00/39430	07-06-2000	Pietras		
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7	B34	WO 00/66879	11-09-2000	Hawkins, et al.		
-11	B35	WO 02/081863	10-17-2002	Simpson, et al.		

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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Panenwork Reduction Act of 1995 on 10/735,918 Substitute for form 1449A/PTO Application Number Filing Date December 15, 2003 INFORMATION DISCLOSURE First Named Inventor William Banning Vail, III STATEMENT BY APPLICANT Group Art Unit 3672 **Examiner Name** Unknown-(Use as many sheets as necessary) WEAT/0528.P1 **Attorney Docket Number** Customer No. 36735

Submission Date

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
nitiate	No. ¹	Number-Kind Code ^{2 (If known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
-11	A137	US-6,223,823	05-01-2001	Head	
7,	A138	US-6,227,587	05-08-2001	ТептаІ	
1	A139	US-6,275,938	08-14-2001	Bond, et al.	
	A140	US-6,290,432	09-18-2001	Exley, et al.	
	A141	US-6,305,469	10-23-2001	Coenen, et al.	
	A142	US-6,309,002	10-30-2001	Bouligny	
	A143	US-6,349,764	02-26-2002	Adams, et al.	
	A144	US-6,360,633	03-26-2002	Pietras	
	A145	US-6,367,566	04-09-2002	HIII	
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	A147	US-6,392,317	05-21-2002	Hall, et al.	
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	A150	US-6,446,723	09-10-2002	Ramons, et al.	
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	A152	US-6,648,075	11-18-2003	Badrak, et al.	1,
	A153	US-6,688,394	02-10-2004	Ayling	
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	1		FOR	EIGN PATENT	DOCUMENTS		
Exami		Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁰
Initials		No.1	Number-Kind Code ^{2 (f known)}	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	7	B36	WO 02/44601	06-06-2002	Appleford, et al.		
	Τ	B37	WO 03/087525	10-23-2003	Vincent, et al.		
7	-	B38	WO 93/07358	04-15-1993	Eiane, et al.		
7	7	B39	WO 96/18799	06-20-1996	Stokka		
7	1	B40	WO 98/05844	02-12-1998	Stokka		

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Substitute for form 1449A/PTO	Application Number	10/735,918

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 12 Filing Date December 15, 2003 First Named Inventor William Banning Vail, III **Group Art Unit** 3672 Unknown **Examiner Name Attorney Docket Number** WEAT/0528.P1 36735 Customer No. **Submission Date**

U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No.1	Number-Kind Code ^{2 (f known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
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77	A156	US-6,725,938	04-27-2004	Pietras		
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	A165	US-2003/0173090	09-18-2003	Cook, et al.		
	A166	US-2003/0213598	11-20-2003	Hughes		
	A167	US-2004/0003944	01-08-2004	Vincent, et al.		
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	A169	US-2004/0011534	01-22-2004	Simonds, et al.		
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Examine	Cite	Foreign Patent Document	Publication Date	Name of Patentee or		T°
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	842	WO 98/32948	07-30-1998	Pietras		
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10/735,918

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of | 12

Application Number	10/735,918
Filing Date	December 15, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown 78
Attorney Docket Number	WEAT/0528.P1
Customer No.	36735
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	A176	US-2004/0123984	07-01-2004	Vail			
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1	A182	US-2004/0112646	06-17-2004	Vail			
11	A183	US-Re 34,063	09-15-1992	Vincent, et al.			
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	A187	US-			·		
	A188	US-					
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T⁰
Initials*	No.¹	Number-Kind Code ^{2 (f known)}	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	B46	FR 2741907	06-06-1997	Leighton		
	B47					
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	Substitute	for form 1449B/PTO			Application Number	10/735,918
					Filing Date	December 15, 2003
	INFO	RMATION DISC	LOS	SURE	First Named Inventor	William Banning Vail, III
	STAT	EMENT BY AP	PLIC	CANT	Group Art Unit	3672
•					Examiner Name	Unknown S
	-	(Use as many sheets as ned	cessary))	Attorney Docket Number	WEAT/0528.P1
					Customer No.	36735
	Sheet	11	of	12	Submission Date	

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
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					Customer No.	36735
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_	STATEMENT BY APPLICANT				Group Art Unit	3672
	INFO	RMATION DISC	LOS	SURE	First Named Inventor	William Banning Vail, III
					Filing Date	December 15, 2003
	Substitute for form 1449B/PTO				Application Number	10/735,918
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		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
7		500 or 650 HCIS Top Drive, Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages	
7		Product Information (Sections 1-10) CANRIG Drilling Technology, Ltd., September 18, 1996	
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Examiner	-	Date Considered 9/29	11-

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Filing Date	December 15, 2003			
First Named Inventor	Vail III			
Group Art Unit	3672			
Examiner Name	Unknown 3			

10/735,918

WEAT/0528.P1

Submission Date July 30, 2004

Application Number

Attorney Docket Number

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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials 2	No.'	Number-Kind Code ^{2 (I known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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//	A2	US-6702040 B1	03/09/2004	Sensenig	
1	А3	US-6668937	12/30/2003	Murray	
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Examin		Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸	
Initials*		۷o.'	Country Code ³ -Number ⁴ -Kind Code ⁸ (if known)	MM-DD-YYYY	Applicant of Cited Document			
\Box	8	31	DE 3 213 464	10/13/1983	Reimer			
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10/735,918 Substitute for form 1449A/PTO Application Number December 15, 2003 Filing Date INFORMATION DISCLOSURE First Named Inventor Vail III STATEMENT BY APPLICANT Group Art Unit 3672 Examiner Name Unknown-(Use as many sheets as necessary) Attorney Docket Number WEAT/0528.P1 Sheet 29 Submission Date July 30, 2004

		*	U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.¹	Number-Kind Code ^{2 (# lonewri)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰	
Initials*	No.'	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document			
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	EMENT BY AP			Group Art Unit	3672
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			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
7	No.	Number-Kind Code ^{2 (I known)}	MM-DD-YYYY	Applicant of Cited Document	Figures Appear
+1	A39	US-5361859	11/08/1994	Tibbitts	
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Initials*		No.1	Country Code ³ -Number ⁴ -Kind Code ⁸ (if known)	MM-DD-YYYY	Applicant of Cited Document		
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Substitute for form 14	49A/PTO		Application Number	10/735,918
			Filing Date	December 15, 2003
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Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	CL O	SURF	First Named Inventor	Vail III
	TEMENT BY AP			Group Art Unit	3672
J 1,711			.	Examiner Name	Unknown 75
	(Use as many sheets as ne	cessary	<i>(</i>)	Attorney Docket Number	WEAT/0528.P1
Sheet	5	of	29	Submission Date	July 30, 2004

			U.S. PATENT	DOCUMENTS	•
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials	No.1	Number-Kind Code ^{2 (8 known)}	MM-DD-YYYY	Applicant of Cited Document	Retevant Passages or Retevant Figures Appear
17	A77	US-3353599	11/21/1967	Swift	
7/	A78	US-3191680	06/29/1965	Vincent	
	A79	US-3191677	06/29/1965	Kinley	
	A80	US-3169592	02/26/1965	Kammerer	
	A81	US-3102599	09/03/1963	Hillburn	
	A82	US-3087546	04/30/1963	Wooley	
	A83	US-2805043	09/03/1957	Williams	
	A84	US-2765146	10/02/1956	Williams	
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	A86	US-2743087	04/24/1956	Layne, et al.	
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	A89	US-2627891	02/10/1953	Clark	
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	A92	US2295803	09/15/1940	O'Leary	
	A93	US-2216895	10/08/1940	Stokes	
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		FORE	IGN PATENT	DOCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ³ (il known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰
	B19	GB 2 365 463	02/20/2002	Giancarlo	•	
	B20	GB 2 382 361	05/28/2003	Hewson, et al.		
1/2	B21	GB 2 216 926	10/18/1989	Haloid		
77	B22	GB 2 348 223	09/27/2000	Cook, et al.		

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO Application Number 10/735,918 Filing Date December 15, 2003 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Application Number Vail III Group Art Unit 3672					
Substitute	ubstitute for form 1449A/PTO		Application Number	10/735,918	
				Filing Date	December 15, 2003
INFO	RMATION DISC	CL OS	SURE	First Named Inventor	Vail III
				Group Art Unit	3672
				Examiner Name	Unknown /S
	(Use as many sheets as ne	cessary)	Attorney Docket Number	WEAT/0528.P1
Sheet	6	of	29	Submission Date	July 30, 2004

			U.S. PATENT	DOCUMENTS	
Examiner Initials	Cite No.1	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
-		Number-Kind Code ^{2 (f known)}			Figures Appear
7/	A95	US-2049450	08/04/1936	Johnson	
/ ′	A96	US-2017451	10/15/1935	Wickersham	
	A97	US-1981525	11/20/1934	Price	
	A98	US-1880218	10/04/1932	Simmons	
	A99	US-1342424	06/08/1920	Cotten	
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	A105	US-2003/0141111	07/31/2004	Pia	
	A106	US-2003/0111267	06/19/2003	Pia	
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	A111	US-5833002	11/10/1998	Holcombe	
	· A112	US-5615747	04/01/1997	Vail, III	
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	A117	US-4651837	03/24/1987	Mayfield	
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	A119	US-3552508	01/05/1971	Brown	

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Examiner Initials*			Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	T ⁶		
		No.¹	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear			
		B23	GB 540 027	10/02/1941					
		B24	GB 7 928 86	04/12/1958					
	7	B25	GB 8 388 33	06/22/1960					
7		B26	GB 9 977 21	07/07/1965	Gamier, et al.				

Examiner Date Considered +

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and to a collection of information unless it displays a valid CMB combin property.

Substitute for	form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFOR	MATION DISC	:LOS	SURF	First Named Inventor	Vail III
	MENT BY AP			Group Art Unit	3672
• • • • • • • • • • • • • • • • • • • •				Examiner Name	Unknown
. (Us	se as many sheets as ned	essary)	Attorney Docket Number	WEAT/0528.P1
Sheet 7		of	29	Submission Date	July 30, 2004

			IGN PATENT I			
xaminer nitials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or	1
	140.	Country Code ³ -Number ⁴ -Kind Code ³ (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Figures Appear	
41	B27	USSR 112631	01/10/1956	Barshai, et al.		
	B28	USSR 1304470	08/31/1984	Gelfat, et al.	·	
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	847	WO 90/06418	06/14/1990	Schulze-Bechinghausen		
	B48	WO 92/01139	01/23/1992	Nobilequ		
	B49	WO 92/18743	10/29/1992	Pietras		
1	B50	WO 92/20899	11/26/1992	Ellis		
7/	B51	WO 93/24728	12/09/1993	Simpson		

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Substitute	for form 1449A/PTO			Application Number	10/735,918
INFORMATION DISCLOSURE First STATEMENT BY APPLICANT Ground	Filing Date	December 15, 2003			
INFO	RMATION DISC	CLO	SURE	First Named Inventor	Vail III
STAT		CANT	Group Art Unit	3672	
				Examiner Name	Unknown 75
	(Use as many sheets as ne	cessary)	Attorney Docket Number	December 15, 2003 Inventor Vail III It 3672 Ime Unknown 75 75 WEAT/0528.P1
Sheet	8	of	29	Submission Date	July 30, 2004

-	· · ·	FORE	IGN PATENT I	DOCUMENTS		
Examiner Initiale*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (it known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
17	B52	WO 95/10686	04/20/1995	Lorenz, et al.		
//	B53	WO 96/28635	09/19/1996	Strong, et al.		
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	B56	WO 99/37881	07/29/1999	Kirk, et al.		
	B57	WO 99/50528	10/07/1999	Kuck, et al.		
	B58	WO 99/64713	12/16/1999	Wardley		
	B59	WO 99/11902	03/11/1999	Hollingsworth		
Z	B50	FR 2053088	07/20/1970	Gottwald		
7	B72	WO 00/08293	02/17/2000	Van Drentham-Susman		
41	B73	WO 91/16520	10/31/1991	Hallundbaek .		Ì
//	B74					1
*	B75	-	-			
	B76					
	B77					
	B78					
-						1
Examiner	/	Enast-	8	Date Considered	9/29/05	

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Substitute	for form 1449B/PTO			Application Number	10/735,918
	NEORMATION DISCLOSURE			Filing Date	December 15, 2003
INFO	RMATION DISC	LO:	SURE	First Named Inventor	Vail III
_	NFORMATION DISCLOSURE	Group Art Unit	3672		
				Examiner Name	Unknown /
	(Use as many sheets as ned	cessary)	Attorney Docket Number	WEAT/0528.P1
Sheet	9	of	29	Submission Date	July 30, 2004

01100		G. 15 G. 150.					
		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²				
4	C1	HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development, " Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orlean, LA Feb. 23-25, 2000 pp. 1-9.					
1	C2	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Driling are Options" Drilling Contractor, January/February 2002, pp. 52.					
	С3	M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130.					
	C4	"First Success with Casing-Drilling" Word Oil, February (1999), pp. 25.					
	C5 DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56.						
	C6	United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360)	_				
	C7	United States Patent Application 10/832,804, filed April 27, 2004 (WEAT/0383.P1)					
	C8	United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373)					
	C9	United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357)					
	C10	United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359)					
	C11	United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344)					
4	C12	United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372)					
/	4						

Examiner Date Considered //29/0)

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Substitute	e for form 1449B/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	:1.09	SURE	First Named Inventor	Vail III
	TEMENT BY AP			Group Art Unit	3672
• • • • • • • • • • • • • • • • • • • •				Examiner Name	Unknown (Con)
	(Use as many sheets as neo	essary)	Attorney Docket Number	WEAT/0528.P1
Sheet	10	of	29	Submission Date	July 30, 2004

31186	et 10	of 29 Submission Date July 30, 2004	_/					
		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*)	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²					
C13 United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)								
7 /	C14	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)						
	C15	United States Patent Application 10/795,129, filed March 5, 2004 (WEAT/0366)						
	C16	United States Patent Application 10/794,790, filed March 5, 2004 (WEAT/0329)						
	C17	United States Patent Application 10/162,302, filed June 4, 2004 (WEAT/0410)						
	C18	Rotary Steerable Technology – Technology Gains Momentum, Oil & Gas Journal, 12/28/1998						
4	C19	Directional Drilling, M. Mims, World Oil, May 1999, pp. 40-43						
1	C20	Multilateral Classification System w/Example Applications, Alan MacKenzie & Cliff Hogg, World Oil, Jan. 1999, pp. 55-61						
/	C21							
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	C23							
	C24							
Examiner	7	nanc 3 Date Considered 8/29/0	· -					

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10/735,918 Substitute for form 1449A/PTO **Application Number** December 15, 2003 Filing Date First Named Inventor Vail III INFORMATION DISCLOSURE **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** lJoknown. (Use as many sheets as necessary) WEAT/0528.P1 **Attorney Docket Number** Sheet 11 **Submission Date** July 30, 2004

Examine Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
4	A120	6,591,471	07-15-2003	Hollingsworth et al.			
11	A121	6,554,064	04-29-2003	Restarick et al.			
	A122	6,538,576	03-25-2003	Schultz et al.			
	A123	6,536,520	03-25-2003	Snider et al.			
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77	A142	6,371,203	04-16-2002	Frank et al.			

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Substi	ute for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INF	ORMATION DISC	CLOS	SURE	First Named Inventor	Vail III
	ATEMENT BY AP			Group Art Unit	3672
•		•		Examiner Name	Unknown TS-
	(Use as many sheets as ne	cessary)	Attorney Docket Number .	WEAT/0528.P1
She	et 12	of	29	Submission Date	July 30, 2004

xamine Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
-11	A143	6,359,569	03-19-2002	Beck et al.			
11	A144	6,357,485	03-19-2002	Quigley et al.			
1	A145	6,343,649	02-05-2002	Beck et al.			
	A146	6,325,148	12-04-2001	Trahan et al.			
	A147	6,315,051	11-13-2001	Ayling			
	A148	6,311,792	11-06-2001	Scott et al.			
	A149	6,296,066	10-02-2001	Terry et al.			
	A150	6,263,987	07-24-2001	Vail, III			
	A151	6,234,257	05-22-2001	Ciglenec et al.			
	A152	6,220,117	04-24-2001	Butcher			
	A153	6,206,112	03-27-2001	Dickinson, III et al.			
	A154	6,196,336	03-06-2001	Fincher et al.			
	A155	6,189,621	02-20-2001	Vail, III			
- /-	A156	6,182,776	02-06-2001	Asberg			
	A157	6,172,010	01-09-2001	Argillier et al.			
	A158	6,170,573	01-09-2001	Brunet et al.			·
11	A159	6,158,531	12-12-2000	Vail, III			
Examiner	7			_	Date C	onsidered	9/29/0

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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10/735,918 **Application Number** Substitute for form 1449A/PTO Filing Date December 15, 2003 First Named Inventor Vail III INFORMATION DISCLOSURE **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) WEAT/0528.P1 Attorney Docket Number of 29 Sheet | 13 **Submission Date** July 30, 2004

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*Examine r Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
1	A160	6,119,772	09-19-2000	Pruet			
//	A161	6,065,550	05-23-2000	Gardes			
1	A162	6,062,326	05-16-2000	Strong et al.			
	A163	6,061,000	05-09-2000	Edwards			
	A164	6,059,053	05-09-2000	McLeod			·
	A165	6,059,051	05-09-2000	Jewkes et al.			
	A166	6,026,911	02-22-2000	Angle et al.			
	A167	6,000,472	12-14-1999	Albright et al.			
	A168	5,971,079	10-26-1999	Mullins			•
	A169	5,957,225	09-28-1999	Sinor			
	A170	5,950,742	09-14-1999	Caraway			
	A171	5,947,213	09-07-1999	Angle et al.			
	A172	5,931,231	08-03-1999	Mock	Ì		
	A173	5,921,332	07-13-1999	Spedale, Jr.			
	A174	5,921,285	07-13-1999	Quigley et al.	-	· ·	
	A175	5,913,337	06-22-1999	Williams et al.			
	A176	5,908,049	06-01-1999	Williams et al.			
	A177	5,894,897	04-20-1999	Vail, III			
	A178	5,890,549	04-06-1999	Sprehe		·	
	A179	5,890,537	04-06-1999	Lavaure et al.			
7	A180	5,860,474	01-19-1999	Stoltz et al.			
1	A181	5,845,722	12-08-1998	Makohi et al.			
Examiner	F	race	200		Date Cor	nsidered	3/19/05

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Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	a os	SURE	First Named Inventor	Vail III
	TEMENT BY AP			Group Art Unit	3672
				Examiner Name	Wakaowa TS
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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate		
4	A182	5,842,530	12-01-1998	Smith et al.					
	A183	5,839,519	11-24-1998	Spedale, Jr.					
/	A184	5,839,330	11-24-1998	Stokka					
	A185	5,829,520	11-03-1998	Johnson					
	A186	5,828,003	10-27-1998	Thomeer et al.					
	A187	5,785,134	07-28-1998	McLeod et al.					
	A188	5,746,276	05-05-1998	Stuart					
	A189	5,743,344	04-28-1998	McLeod et al.					
	A190	5,735,348	04-07-1998	Hawkins, III					
	A191	5,732,776	03-31-1998	Tubel et al.					
	A192	5,720,356	02-24-1998	Gardes					
	A193	5,711,382	01-27-1998	Hansen et al.					
	A194	5,667,026	09-16-1997	Lorenz et al.					
	A195	5,667,023	09-16-1997	Harrell et al.					
	A196	5,662,182	09-02-1997	McLeod et al.					
	A197	5,662,170	09-02-1997	Donovan et al.					
	A198	5,661,888	09-02-1997	Hanslik					
7	A199	5,651,420	07-29-1997	Tibbitts et al.					
	A200	5,584,343	12-17-1996	Coone					
<u></u>	A201	5,582,259	12-10-1996	Barr					
4	A202	5,560,437	10-01-1996	Dickel et al.					
Examiner	7	ac	8		Date Co	nsidered	3/29/0T		

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Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	21 09	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
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U.S. Paten	t Docum	ents					
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Clas	Subclass	Filing Date If Appropriate
+1	A203	5,551,521	09-03-1996	Vail, III			
//	A204	5,547,029	08-20-1996	Rubbo et al.			
1	A205	5,535,838	07-16-1996	Keshavan et al.			
7	A206	5,535,824	07-16-1996	Hudson			
	A207	5,497,840	03-12-1996	Hudson			
	A208	5,472,057	12-05-1995	Winfree			
	A209	5,452,923	09-26-1995	Smith			
	A210	5,386,746	02-07-1995	Hauk			
	A211	5,379,835	01-10-1995	Streich	·		
	A212	5,368,113	11-29-1994	Schulze- Beckinghausen		·	
	A213	5,355,967	10-18-1994	Mueller et al.			
	A214	5,354,150	10-11-1994	Canales			
	A215	5,353,872	10-11-1994	Wittrisch			
	A216	5,343,950	09-06-1994	Hale et al.			
	A217	5,332,048	07-26-1994	Underwood et al.			
	A218	5,323,858	06-28-1994	Jones et al.			
	A219	5,320;178	06-14-1994	Cornette			
7	A220	5,305,830	04-26-1994	Wittrisch			
	A221	5,297,833	03-29-1994	Willis et al.			
11	A222	5,294,228	03-15-1994	Willis et al.			
Examiner	Z	200	2		Date	Considere	1 8/29/15

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Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	. December 15, 2003
INFO	RMATION DISC	CLOS	SURE	First Named Inventor	Vail III
STATEMENT BY APPLICANT			Group Art Unit	3672	
				Examiner Name	Unknown 78
	(Use as many sheets as ne	cessary)	Attorney Docket Number	WEAT/0528.P1
Sheet	16	of	29	Submission Date	July 30, 2004

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
11	A223	5,291,956	03-08-1994	Mueller et al.	<u> </u>		
/	A224	5,285,204	02-08-1994	Sas-Jaworsky	\ 		
7	A225	5,285,008	02-08-1994	Sas-Jaworsky et al.			
	A226	5,282,653	02-01-1994	LaFleur et al.			
	A227	5,271,472	12-21-1993	Leturno			
	A228	5,255,751	10-26-1993	Stogner	ĺ		
	A229	5,255,741	10-26-1993	Alexander			
	A230	5,234,052	08-10-1993	Coone et al.			
	A231	5,197,553	03-30-1993	Leturno			
	A232	5,191,939	03-09-1993	Stokley			
	A233	5,186,265	02-16-1993	Henson et al.			
	A234	5,172,765	12-22-1992	Sas-Jaworsky			
	A235	5,168,942	12-08-1992	Wydrinski			
	A236	5,160,925	11-03-1992	Dailey et al.			
	A237	5,148,875	09-22-1992	Karlsson et al.			
	A238	5,111,893	05-12-1992	Kvello-Aune			
	A239	5,096,465	03-17-1992	Chen et al.			
	A240	5,082,069	01-21-1992	Seiler et al.			
	A241	5,074,366	12-24-1991	Karlsson et al.			
7/	A242	5,060,737	10-29-1991	Mohn			

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	Substitute	for form 1449A/PTO			Application Number	10/735,918
					Filing Date	December 15, 2003
	INFO	RMATION DISC	:LOS	SURF	First Named Inventor	Vail III
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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
11	A243	5,060,542	10-29-1991	Hauk			
7/	A244	5,049,020	09-17-1991	McArthur			
1	A245	5,027,914	07-02-1991	Wilson			
	A246	5,022,472	06-11-1991	Bailey et al.			
	A247	4,997,042	03-05-1991	Jordan et al.			
	A248	4,962,822	10-16-1990	Pascale			
	A249	4,921,386	05-01-1990	McArthur			
	A250	4,880,058	11-14-1989	Lindsey et al.			
	A251	4,854,386	08-08-1989	Baker et al.			
	A252	4,843,945	07-04-1989	Dinsdale			
	A253	4,842,081	06-27-1989	Parant			
	A254	4,832,552	05-23-1989	Skelly			
	A255	4,813,495	03-21-1989	Leach			
	A256	4,765,416	08-23-1988	Bjerking et al.	ŀ		
	A257	4,762,187	08-09-1988	Haney			
	A258	4,760,882	08-02-1988	Novak			
	A259	4,735,270	04-05-1988	Fenyvesi			
	A260	4,725,179	02-16-1988	Woolslayer et al.			
	A261	4,671,358	06-09-1987	Lindsey, Jr. et al.			
77	A262	4,686,873	08-18-1987	Lang et al.			

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Substitute for f	orm 1449A/PTO			Application Number Filing Date	10/735,918 - December 15, 2003
INFORMATION DISCLOSURE				First Named Inventor	Vail III
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Sheet 18		of	29	Submission Date	July 30, 2004

Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
1/	A263	4,655,286	04-07-1987	Wood	+		- Apropriate
1	A264	4,652,195	03-24-1987	McArthur			
	A265	4,651,837	03-24-1987	Mayfield			
	A266	4,630,691	12-23-1986	Hooper		-	
	A267	4,605,077	08-12-1986	Boyadjieff	·		
	A268	4,604,724	08-05-1986	Shaginian et al.			
	A269	4,589,495	05-20-1986	Langer et al.			
	A270	4,583,603	04-22-1986	Dorleans et al.			
	A271	4,580,631	04-08-1986	Baugh			
	A272	4,545,443	10-08-1985	Wiredal			
	A273	4,544,041	10-01-1985	Rinaldi			
	A274	4,474,243	10-02-1984	Gaines			
	A275	4,472,002	09-18-1984	Beney et al.			
	A276	4,470,470	09-11-1984	Takano			
	A277	4,463,814	08-07-1984	Horstmeyer et al.			
	A278	4,460,053	07-17-1984	Jurgens et al.			
1	A279	4,440,220	04-03-1984	McArthur			
	A280	4,413,682	11-08-1983	Callihan et al.			
	A281	4,408,669	10-11-1983	Wiredal			
	A282	4,384,627	05-24-1983	Ramirez-Jauregui			
0	A283	4,336,415	06-22-1982	Walling			
1	A284	4,320,915	03-23-1982	Abbott et al.			
71	A285	4,315,553	02-16-1982	Stallings			

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Substitute	for form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFO	RMATION DISC	21 09	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
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Examiner nitial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
7/	A286	4,287,949	09-08-1981	Lindsey, Jr.			·
1	A287	4,281,722	08-04-1981	Tucker et al.			
1	A288	4,274,777	06-23-1981	Scaggs			
	A289	4,262,693	04-21-1981	Giebeler			
	A290	4,257,442	03-24-1981	Claycomb			
	A291	4,175,619	11-27-1979	Davis			
	A292	4,173,457	11-06-1979	Smith			
	A293	4,142,739	03-06-1979	Billingsley			
	A294	4,133,396	01-09-1979	Tschirky			
	A295	4,100,968	07-18-1978	Delano			
	A296	4,085,808	04-25-1978	Kling		•	
	A297	4,082,144	04-04-1978	Marquis			
	A298	4,077,525	03-07-1978	Callegari et al.			
1	A299	4,064,939	12-27-1977	Marquis			
	A300	4,054,426	10-18-1977	White			
17	A301	4,049,066	09-20-1977	Richey			
11	A302	3,980,143	09-14-1976	Swartz et al.			. 1

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Substitute	for form 1449A/PTO			Application Number	10/735,918 December 15, 2003
INFO	RMATION DISC	1 09	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
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Examiner		Document	Issue	Applicant(s)	Class	Subcl	Filing Date If
Initial		Number	Date	Name	0.000	ass	Appropriate
11	A303	3,964,556	06-22-1976	Gearhart et al.			
//	A304	3,945,444	03-23-1976	Knudson			
1	A305	3,885,679	05-27-1975	Swoboda, Jr. et al.			
	A306	3,881,375	05-06-1975	Kelly			
	A307	3,870,114	03-11-1975	Pulk, deceased et al.			
	A308	3,840,128	10-08-1974	Swoboda, Jr. et al.			
	A309	3,838,613	10-01-1974	Wilms			
	A310	3,808,916	05-07-1974	Porter et al.			
	A311	3,747,675***	07-24-1973	Brown			
	A312	3,729,057	04-24-1973	Werner			
	A313	3,692,126	09-19-1972	Rushing et al.			
	A314	3,656,564	04-18-1972	Brown			
	A315	3,603,413	09-07-1971	Grill, et al.			
	A316	3,603,412	09-07-1971	Kammerer, Jr. et al.			
	A317	3,603,411	09-07-1971	Link			
	A318	3,559,739	02-02-1971	Hutchison			
	A319	3,570,598	03-16-1971	Johnson			
	A320	3,552,510	01-05-1971	Brown			
	A321	3,552,509	01-05-1971	Brown			
	A322	3,552,508	01-05-1971	Brown			
7	A323	3,550,684	12-19-1970	Cubberly, Jr.			
	A324	3,518,903	07-07-1970	Ham, et al.			
	A325	3,392,609	07-16-1968	Bartos			
71	A326	3,380,528	04-30-1968	Timmons			

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Substitute	for form 1449A/PTO			Application Number	10/735,918		
				Filing Date	December 15, 2003		
INFO	RMATION DIS	CL OS	SURF	First Named Inventor	Vail III		
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Examiner nitial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
17	A327	3,159,219	12-01-1964	Scott			
11:	A328	3,123,160	03-03-1964	Kammerer			
ſ	A329	3,122,811	03-03-1964	Gilreath			
	A330	2,743,495	05-01-1956	Eklund			
	A331	2,738,011	03-13-1956	Mabry			
	A332	2,692,059	10-19-1954	Bolling, Jr.			
	A333	2,668,689	02-09-1954	Cormany			
	A334	2,650,314	08-25-1953	Hennigh, et al.			
	A335	2,621,742	12-16-1952	Brown			
	A336	2,610,690	09-16-1952	Beatty			
	A337	2,522,444	09-12-1950	Grable			-
	A338	2,214,429	09-10-1940	Miller			
	A339	1,917,135	07-04-1933	Littell			
	A340	1,842,638	01-26-1932	Wigle			
	A341	2003/0070841		Merecka et al.			11/19/2002
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	A345	2002/0189806		Davidson et al.			06/13/2002
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	A348	2002/0134555		Allen et al.			12/07/2001
\bigcirc	A349	2002/0074132		Juhasz et al.			03/03/2000
1	A350	2002/0074127		Birckhead et al.			02/22/2001
	A351	2002/0066556		Goode et al.			08/02/2001
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INFO	RMATION DISC	: 09	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
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Substitute for form 1449A/PTO	·	Application Number Filing Date	10/735,918 December 15, 2003
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Substitute f	or form 1449A/PTO			Application Number	10/735,918
				Filing Date	December 15, 2003
INFOR	RMATION DISC	:LOS	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
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10/735,918 **Application Number** Substitute for form 1449A/PTO Filing Date December 15, 2003 First Named Inventor Vail III INFORMATION DISCLOSURE **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown. (Use as many sheets as necessary) Attorney Docket Number WEAT/0528.P1 Sheet 26 **Submission Date** July 30, 2004

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Substitute	for form 1449A/PTO			Application Number	10/735,918
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